

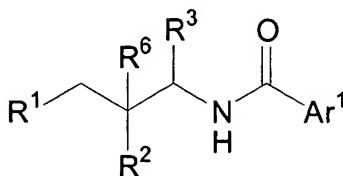
DT04 Rec'd PCT/PTO 27 SEP 2004

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of the Claims

Claim 1 (Original): A compound of structural formula I:



(I)

or a pharmaceutically acceptable salt thereof, wherein;

R¹ is selected from:

- (1) C₁₋₁₀alkyl,
- (2) C₃₋₁₀cycloalkyl,
- (3) cycloheteroalkyl,
- (4) aryl, and
- (5) heteroaryl,

wherein alkyl is optionally substituted with one, two, three or four substituents independently selected from R^a, and each cycloalkyl, cycloheteroalkyl, aryl and heteroaryl are optionally substituted on a carbon or nitrogen atom with one, two, three or four substituents independently selected from R^b;

R² is selected from:

- (1) C₃₋₁₀cycloalkyl,
- (2) cycloheteroalkyl,
- (3) aryl,
- (4) heteroaryl,
- (5) -OR^d,
- (6) -NR^cR^d, and
- (7) -CO₂R^d,

wherein each alkyl is optionally substituted with one, two, three or four substituents independently selected from R^a, and each cycloalkyl, cycloheteroalkyl, aryl and heteroaryl are optionally substituted on a carbon or nitrogen atom with one, two, three or four substituents independently selected from R^b;

R³ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl,

wherein alkyl is optionally substituted with one to four substituents independently selected from R^a;

R⁶ is selected from:

- (1) hydrogen,
- (2) C₁₋₄alkyl,
- (3) C₂₋₄alkenyl,
- (4) C₂₋₄alkynyl,
- (5) -OR^d,
- (6) halogen,
- (7) -CN,
- (8) -NR^cR^d,

wherein alkyl, alkenyl, and alkynyl are optionally substituted with one to four substituents independently selected from R^a

Ar¹ is selected from:

- (1) aryl, and
- (2) heteroaryl,

each optionally substituted on the carbon or nitrogen with one, two, or three groups independently selected from R^b;

each R^a is independently selected from:

- (1) -OR^c,
- (2) -NR^cS(O)_mR^d,
- (3) -NO₂,
- (4) halogen,
- (5) -S(O)_mR^c,
- (6) -SR^c,
- (7) -S(O)₂OR^c,
- (8) -S(O)_mNR^cR^d,
- (9) -NR^cR^d,
- (10) -O(CR^eR^f)_nNR^cR^d,
- (11) -C(O)R^c,
- (12) -CO₂R^c,
- (13) -CO₂(CR^eR^f)_nCONR^cR^d,
- (14) -OC(O)R^c,
- (15) -CN,

- (16) $-\text{C}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (17) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{R}^{\text{d}}$,
- (18) $-\text{OC}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (19) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{OR}^{\text{d}}$,
- (20) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (21) $-\text{CR}^{\text{c}}(\text{N}-\text{OR}^{\text{d}})$,
- (22) CF_3 ,
- (23) $-\text{OCF}_3$,
- (24) $\text{C}_{3-8}\text{cycloalkyl}$,
- (25) cycloheteroalkyl , and
- (26) oxo ;

each R^{b} is independently selected from:

- (1) R^{a} ,
- (2) $\text{C}_{1-10}\text{alkyl}$,
- (3) $\text{C}_{3-8}\text{cycloalkyl}$,
- (4) cycloheteroalkyl ,
- (5) aryl ,
- (6) $\text{arylC}_{1-4}\text{alkyl}$,
- (7) heteroaryl , and
- (8) $\text{heteroarylC}_{1-4}\text{alkyl}$,

wherein alkyl , cycloalkyl , cycloheteroalkyl , and heteroaryl are optionally substituted with oxo , and wherein aryl and heteroaryl are optionally substituted with $-\text{OR}^{\text{c}}$, $\text{NR}^{\text{c}}\text{R}^{\text{d}}$, or $-\text{C}(\text{O})\text{R}^{\text{c}}$;

R^{c} and R^{d} are independently selected from:

- (1) hydrogen ,
- (2) $\text{C}_{1-10}\text{alkyl}$,
- (3) $\text{C}_{2-10}\text{alkenyl}$,
- (4) $\text{C}_{2-10}\text{alkynyl}$,
- (5) cycloalkyl ,
- (6) $\text{cycloalkyl-C}_{1-10}\text{alkyl}$,
- (7) cycloheteroalkyl ,
- (8) $\text{cycloheteroalkyl-C}_{1-10}\text{alkyl}$;
- (9) aryl ,
- (10) heteroaryl ,
- (11) $\text{aryl-C}_{1-10}\text{alkyl}$, and
- (12) $\text{heteroaryl-C}_{1-10}\text{alkyl}$, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-Rg, or two -OR^c groups together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-Rg,

each R^c and R^d may be unsubstituted or substituted with one to three substituents selected from R^h ;

R^e and R^f are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀ alkenyl,
- (4) C₂₋₁₀alkynyl,
- (5) cycloalkyl,
- (6) cycloalkyl-C₁₋₁₀ alkyl,
- (7) cycloheteroalkyl,
- (8) cycloheteroalkyl-C₁₋₁₀ alkyl,
- (9) aryl,
- (10) heteroaryl,
- (11) arylC₁₋₁₀ alkyl, and
- (12) heteroarylC₁₋₁₀ alkyl, or

R^e and R^f together with the carbon to which they are attached form a ring of 5 to 7 members containing 0-2 heteroatoms independently selected from oxygen, sulfur and nitrogen;

each Rg is independently selected from

- (1) C₁₋₁₀alkyl,
- (2) C₃₋₈cycloalkyl,
- (3) cycloheteroalkyl,
- (4) aryl,
- (5) arylC₁₋₄alkyl,
- (6) heteroaryl,
- (7) heteroarylC₁₋₄alkyl,
- (8) -S(O)_mR^e,
- (9) -C(O)R^e,
- (10) -CO₂R^e,
- (11) -CO₂(CR^eR^f)_nCONR^eR^f, and
- (12) -C(O)NR^eR^f;

each R^h is independently selected from:

- (1) C₁₋₁₀alkyl,
- (2) C₃₋₈cycloalkyl,

DT04 Rec'd PCT/PTO 27 SEP 2004

- (3) cycloheteroalkyl,
- (4) aryl,
- (5) arylC₁₋₄alkyl,
- (6) heteroaryl,
- (7) heteroarylC₁₋₄alkyl,
- (8) -OR^e,
- (9) -NR^eS(O)_mR^f,
- (10) -S(O)_mR^e,
- (11) -SR^e,
- (12) -S(O)₂OR^e,
- (13) -S(O)_mNR^eR^f,
- (14) -NR^eR^f,
- (15) -O(CR^eR^f)_nNR^eR^f,
- (16) -C(O)R^e,
- (17) -CO₂R^e,
- (18) -CO₂(CR^eR^f)_nCONR^eR^f,
- (19) -OC(O)R^e,
- (20) -CN,
- (21) -C(O)NR^eR^f,
- (22) -NR^eC(O)R^f,
- (23) -OC(O)NR^eR^f,
- (24) -NR^eC(O)OR^f,
- (25) -NR^eC(O)NR^eR^f,
- (26) CF₃, and
- (27) -OCF₃,

m is selected from 1 and 2; and

n is selected from 1, 2, and 3;

provided that when R¹ is phenyl, naphthyl, or heteroaryl, R² is phenyl and R³ is hydrogen, then Ar¹ is not unsubstituted phenyl and is not mono, di or tri- substituted phenyl with an R^b substituent selected from the group consisting of halogen, hydroxy, -C₁₋₆ alkyl, phenyl, -CN, -NO₂, -CO₂H, -C(O)C₁₋₆alkyl, -CO₂C₁₋₆ alkyl, -C(O)NH₂, -C(O)NH-heterocycloalkyl, -NH₂, -NH-heterocycloalkyl, furanyl, dihydrofuranyl, pyrrolidyl, dihydropyrrolidyl, and 1,3-dioxolan; and

provided that when R¹ is aryl, monosubstituted with halogen, -OCH₃ or -CH₃ or optionally di-substituted with halogen, R² is aryl, optionally mono- or di- substituted with halogen, and R³ is hydrogen, then Ar¹ is not unsubstituted 4-pyridinyl; and

provided that when R¹ and R² are unsubstituted aryl or unsubstituted heteroaryl, and R³ is hydrogen or C₁₋₄ alkyl, then Ar¹ is substituted with at least one R^b substituent; and

provided that when R¹ is selected from the group consisting of unsubstituted phenyl, *para*-chlorophenyl or *para*-methoxy phenyl, R² is unsubstituted phenyl, and R³ is -CH₃, then Ar¹ is not unsubstituted phenyl, *ortho*-CO₂H monosubstituted phenyl, or 3,4-dimethoxy phenyl.

Claim 2 (Original): The compound according to Claim 1 wherein:

R¹ is selected from:

- (1) C₁₋₁₀alkyl,
- (2) C₃₋₁₀cycloalkyl,
- (3) cycloheteroalkyl,
- (4) aryl, and
- (5) heteroaryl,

wherein alkyl is optionally substituted with one, two, three or four substituents independently selected from R^a, and each cycloalkyl, cycloheteroalkyl, aryl and heteroaryl are optionally substituted with one, two, three or four substituents independently selected from R^b;

R² is selected from:

- (1) C₃₋₁₀cycloalkyl,
- (2) cycloheteroalkyl,
- (3) aryl,
- (4) heteroaryl,
- (5) -OR^d,
- (6) -NR^cR^d, and
- (7) -CO₂R^d,

wherein each alkyl is optionally substituted with one, two, three or four substituents independently selected from R^a, and each cycloalkyl, and cycloheteroalkyl aryl and heteroaryl are optionally substituted with one, two, three or four substituents independently selected from R^b;

or a pharmaceutically acceptable salt thereof.

Claim 3 (Original): The compound according to Claim 2 wherein:

Ar¹ is selected from:

- (1) phenyl,
- (2) naphthyl,
- (3) thienyl,
- (4) furanyl,
- (5) pyrrolyl,
- (6) oxazolyl,
- (7) isoxazolyl,
- (8) 1,2,5-oxadiazolyl,
- (9) 1,2,5-thiadiazolyl,
- (10) thiazolyl,
- (11) pyrazolyl,
- (12) triazolyl,
- (13) tetrazolyl,
- (14) benzothienyl,
- (15) benzofuranyl,
- (16) benzoxazolyl,
- (17) benzimidazolyl,
- (18) benzothiazolyl,
- (19) indanyl,
- (20) indenyl,
- (21) indolyl,
- (22) imidazo[1,2-a]pyridinyl,
- (23) β -carbolinyl,
- (24) 5,6,7,8-tetrahydro- β -carbolinyl,
- (25) tetrahydronaphthyl,
- (26) 4,5,6,7-tetrahydroindazolyl,
- (27) 2,3-dihydrobenzofuranyl,
- (28) dihydrobenzopyranyl,
- (29) 1,4-benzodioxanyl,
- (30) pyridinyl,
- (31) pyrimidinyl,
- (32) pyrazinyl,
- (33) quinolinyl,
- (34) isoquinolinyl,
- (35) quinazolonyl,
- (36) quinazolinyl,

- (37) 1,8-naphthyridinyl,
- (38) 1,2,3,4-tetrahydro-1,8-naphthyridinyl,
- (39) pyrido[3,2-b]pyridinyl,
- (40) pyrazolo[2,3-a]pyrimidinyl,
- (41) pyrido[1,2-a]pyrimidinyl,
- (42) pyrido[1,2-a]pyrimidonyl,
- (43) benzopyrimidinyl,
- (44) imidazolyl, and
- (45) imidazolonyl,

each optionally substituted with one, two, or three groups independently selected from R^b;
or a pharmaceutically acceptable salt thereof.

Claim 4 (Original): The compound according to Claim 3 wherein:
R³ is C₁₋₄alkyl, optionally substituted with one to four substituents independently selected from R^a;
R⁶ is selected from:

- (1) hydrogen,
- (2) methyl,
- (3) hydroxyl,
- (4) halogen, and
- (5) -CN,

wherein methyl is optionally substituted with one to three R^a substituents;

Ar¹ is selected from:

- (1) phenyl,
- (2) naphthyl,
- (3) thienyl,
- (4) isoxazolyl,
- (5) 1,2,5-oxadiazolyl,
- (6) thiazolyl,
- (7) pyrazolyl,
- (8) triazolyl,
- (9) tetrazolyl,
- (10) benzofuranyl,
- (11) benzoxazolyl,
- (12) benzimidazolyl,
- (13) benzothiazolyl,
- (14) imidazo[1,2-a]pyridinyl,
- (15) 5,6,7,8-tetrahydro- β -carbolinyl,

- (16) 4,5,6,7-tetrahydroindazolyl,
- (17) pyridinyl,
- (18) pyrimidinyl,
- (19) pyrazinyl,
- (20) quinolinyl,
- (21) isoquinolinyl,
- (22) quinazolonyl,
- (23) quinazolinyl,
- (24) 1,8-naphthyridinyl,
- (25) 1,2,3,4-tetrahydro-1,8-naphthyridinyl,
- (26) pyrido[3,2-b]pyridinyl,
- (27) pyrazolo[2,3-a]pyrimidinyl,
- (28) pyrido[1,2-a]pyrimidinyl,
- (29) pyrido[1,2-a]pyrimidonyl,
- (30) benzopyrimidinyl,
- (31) imidazolyl, and
- (32) imidazolonyl,

each optionally substituted with one, two, or three groups independently selected from R^b;

each R^a is independently selected from:

- (1) -OR^c,
- (2) halogen,
- (3) -S(O)_mR^c,
- (4) -SR^c,
- (5) -S(O)₂OR^c,
- (6) -S(O)_mNR^cR^d,
- (7) -NR^cR^d,
- (8) -C(O)R^c,
- (9) -CO₂R^c,
- (10) -CN,
- (11) -C(O)NR^cR^d,
- (12) CF₃,
- (13) -OCF₃,
- (14) C₃₋₈cycloalkyl,
- (15) cycloheteroalkyl, and
- (16) oxo;

each R^b is independently selected from:

- (1) R^a,

- (2) C₁₋₁₀alkyl,
- (3) cycloheteroalkyl,
- (4) aryl,
- (5) arylC₁₋₄alkyl,
- (6) heteroaryl, and
- (7) heteroarylC₁₋₄alkyl,

wherein alkyl, cycloalkyl, cycloheteroalkyl, heteroaryl are optionally substituted with oxo,
and wherein aryl and heteroaryl are optionally substituted with -OR^c, NR^cR^d, or -C(O)R^c;

R^c and R^d are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) cycloalkyl,
- (4) cycloheteroalkyl,
- (5) aryl,
- (6) heteroaryl, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R^g,
or two -OR^c groups together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R^g,

each R^c and R^d may be unsubstituted or substituted with one to three substituents selected from R^h;
or a pharmaceutically acceptable salt thereof.

Claim 5 (Original): The compound according to Claim 4 wherein:

R¹ and R² are independently selected from:

- (1) phenyl, and
- (2) pyridyl,

each optionally substituted with one to four substituents independently selected from R^b;

R³ is C₁₋₄alkyl, wherein alkyl is optionally substituted with one to four substituents independently selected from R^a;

R⁶ is selected from:

- (1) hydrogen,
- (2) methyl,
- (3) hydroxyl,
- (4) halogen, and
- (5) -CN;

each R^a is independently selected from:

- (1) -OR^c,
- (2) halogen,
- (3) -S(O)_mR^c,
- (4) -NR^cR^d,
- (5) -C(O)R^c,
- (6) -CO₂R^c, and
- (7) oxo;

or a pharmaceutically acceptable salt thereof.

Claim 6 (Original): The compound according to Claim 5 wherein:
R¹ and R² are independently selected from:

- (1) phenyl,
- (2) 4-fluorophenyl,
- (3) 2-chlorophenyl,
- (4) 3-chlorophenyl,
- (5) 4-chlorophenyl,
- (6) 4-cyanophenyl,
- (7) 4-methylphenyl,
- (8) 4-isopropylphenyl,
- (9) 4-biphenyl,
- (10) 4-bromophenyl,
- (11) 4-iodophenyl,
- (12) 2,4-dichlorophenyl, and
- (13) 2-chloro-4-fluorophenyl;

or a pharmaceutically acceptable salt thereof.

Claim 7 (Original): The compound according to Claim 6 wherein:
R¹ and R² are independently selected from phenyl and 4-chlorophenyl;
R³ is methyl, wherein methyl is optionally substituted with one to three substituents independently selected from R^a;
or a pharmaceutically acceptable salt thereof.

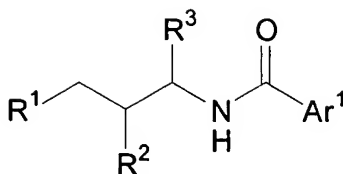
Claim 8 (Original): A compound selected from:

- (1) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzofuran-2-carboxamide;
- (2) N-[2,3-bis(4-chlorophenyl)-1-methylpropyl]-3-chloro-2-naphthamide;
- (3) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isoxazole-5-carboxamide;
- (4) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrido[3,2-b]pyridine-2-carboxamide;
- (5) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazole-3-carboxamide;

- (6) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-thiazole-5-carboxamide;
- (7) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-nicotinamide;
- (8) 2-(1-tetrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (9) 3-(1-tetrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (10) 4-(1-tetrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (11) 5-methyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-thiazole-4-carboxamide;
- (12) 2-phenyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (13) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazine-2-carboxamide;
- (14) 3-(1-(3,5-dimethyl-pyrazolyl))-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (15) 4-(1-(pyrrolidin-2-one))-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (16) 3-(1-(imidazolidin-2-one))-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (17) 4-phenyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (18) 6-bromo-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-picolinamide;
- (19) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isonicotinamide;
- (20) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-picolinamide;
- (21) 4-methyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-1,2,5-oxadiazole-3-carboxamide;
- (22) 3-(1-(pyrrolidin-2-one))-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (23) 2-bromo-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isonicotinamide;
- (24) 3-phenyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (25) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrimidine-4-carboxamide;
- (26) 4-(1-pyrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (27) 2-(1-pyrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (28) 5,6,7,8-tetrahydro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-carbazole-3-carboxamide;
- (29) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-1H-quinazolin-2-one-4-carboxamide;
- (30) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzoxazole-2-carboxamide;
- (31) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazolo[2,3-a]pyrimidine-6-carboxamide;
- (32) 2,4-dimethyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazolo[2,3-a]pyrimidine-6-carboxamide;
- (33) 4-(1-piperidiny)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
- (34) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrimidine-5-carboxamide;
- (35) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrido(1,2-a)pyrimidine-4-one-5-carboxamide;
- (36) 4,5,6,7-tetrahydro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-indazole-3-carboxamide;
- (37) 5-fluoro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzimidazole-2-carboxamide;
- (38) 5-phenyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazole-3-carboxamide;
- (39) 1,2,3,4-tetrahydro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-1,8-naphthyridine-7-carboxamide;
- (40) 1-methyl-3-ethyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazole-5-carboxamide;

- (41) 1-methyl-3-propyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazole-5-carboxamide;
 - (42) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-quinoline-5-carboxamide;
 - (43) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-imidazo(1,2-a)pyridine-2-carboxamide;
 - (44) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-quinoline-4-carboxamide;
 - (45) 4-bromo-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-nicotinamide;
 - (46) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isoquinoline-8-carboxamide;
 - (47) 3-bromo-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-picolinamide;
 - (48) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isoquinoline-5-carboxamide;
 - (49) 4-(2-formyl-phenyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (50) 4-(2-hydroxymethyl-phenyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (51) 4-(2-aminophenyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (52) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-2(3H)-imidazolone-4-carboxamide;
 - (53) 3-(1-tetrazolyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isonicotinamide;
 - (54) 3,4-(ethylenedioxy)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-thiophene-2-carboxamide;
 - (55) 1-isopropyl-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-pyrazole-4-carboxamide;
 - (56) 5-bromo-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-picolinamide;
 - (57) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-1,8-naphthyridine-2-carboxamide;
 - (58) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzothiazole-2-carboxamide;
 - (59) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzimidazole-2-carboxamide;
 - (60) 5-chloro-2-(2-(1-pyrrolyl)ethyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (61) 2-(2-phenylethyl)-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (62) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-naphthylene-2-carboxamide;
 - (63) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-quinoline-5-carboxamide;
 - (64) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-naphthylene-1-carboxamide;
 - (65) N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (66) 2-chloro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (67) 3-chloro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (68) 4-chloro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-benzamide;
 - (69) 3,5-dichloro-N-(2,3-bis(4-chlorophenyl)-1-methylpropyl)-isonicotinamide;
 - (70) *N*-[2-(3-pyridyl)-3-(4-chlorophenyl)-1-methylpropyl]-benzamide;
 - (71) *N*-[2-(2-pyridyl)-3-(4-chlorophenyl)-1-methylpropyl]-benzamide;
 - (72) *N*-[2-(4-pyridyl)-3-(4-chlorophenyl)-1-methylpropyl]-benzamide; and
 - (73) *N*-[3-(3-chloro-2-pyridyl)-2-phenyl-1-methylpropyl]-benzamide;
- or a pharmaceutically acceptable salt thereof.

Claim 9 (Original): A compound of structural formula IA:



(IA)

or a pharmaceutically acceptable salt thereof, wherein;

R¹ is selected from:

- (1) aryl, and
- (2) heteroaryl,

wherein aryl and heteroaryl are optionally substituted on the carbon or nitrogen with one to four substituents independently selected from R^b;

R² is selected from:

- (1) aryl, and
- (2) heteroaryl,

wherein aryl and heteroaryl are optionally substituted on the carbon or nitrogen with one to four substituents independently selected from R^b;

R³ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl,

wherein alkyl is optionally substituted with one to four substituents independently selected from R^a;

Ar¹ is selected from:

- (1) aryl, and
- (2) heteroaryl,

each optionally substituted on the carbon or nitrogen with one, two, or three groups independently selected from R^b;

each R^a is independently selected from:

- (1) -OR^c,
- (2) -NR^cS(O)_mR^d,
- (3) -NO₂,
- (4) halogen,
- (5) -S(O)_mR^c,
- (6) -SR^c,
- (7) -S(O)₂OR^c,
- (8) -S(O)_mNR^cR^d,

- (9) $-\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (10) $-\text{O}(\text{CR}^{\text{e}}\text{R}^{\text{f}})_n\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (11) $-\text{C}(\text{O})\text{R}^{\text{c}}$,
- (12) $-\text{CO}_2\text{R}^{\text{c}}$,
- (13) $-\text{CO}_2(\text{CR}^{\text{e}}\text{R}^{\text{f}})_n\text{CONR}^{\text{c}}\text{R}^{\text{d}}$,
- (14) $-\text{OC}(\text{O})\text{R}^{\text{c}}$,
- (15) $-\text{CN}$,
- (16) $-\text{C}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (17) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{R}^{\text{d}}$,
- (18) $-\text{OC}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (19) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{OR}^{\text{d}}$,
- (20) $-\text{NR}^{\text{c}}\text{C}(\text{O})\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (21) $-\text{CR}^{\text{c}}(\text{N}-\text{OR}^{\text{d}})$,
- (22) CF_3 ,
- (23) $-\text{OCF}_3$,
- (24) $\text{C}_{3-8}\text{cycloalkyl}$,
- (25) cycloheteroalkyl , and
- (26) oxo ;

each R^{b} is independently selected from:

- (1) R^{a} ,
- (2) $\text{C}_{1-10}\text{alkyl}$,
- (3) $\text{C}_{3-8}\text{cycloalkyl}$,
- (4) cycloheteroalkyl ,
- (5) aryl ,
- (6) $\text{arylC}_{1-4}\text{alkyl}$,
- (7) heteroaryl , and
- (8) $\text{heteroarylC}_{1-4}\text{alkyl}$,

wherein alkyl , cycloalkyl , cycloheteroalkyl , and heteroaryl are optionally substituted with oxo , and wherein aryl and heteroaryl are optionally substituted with $-\text{OR}^{\text{c}}$, $\text{NR}^{\text{c}}\text{R}^{\text{d}}$, or $-\text{C}(\text{O})\text{R}^{\text{c}}$;

R^{c} and R^{d} are independently selected from:

- (1) hydrogen ,
- (2) $\text{C}_{1-10}\text{alkyl}$,
- (3) $\text{C}_{2-10}\text{alkenyl}$,
- (4) $\text{C}_{2-10}\text{alkynyl}$,
- (5) cycloalkyl ,
- (6) $\text{cycloalkyl-C}_{1-10}\text{alkyl}$,

- (7) cycloheteroalkyl,
- (8) cycloheteroalkyl-C₁₋₁₀ alkyl;
- (9) aryl,
- (10) heteroaryl,
- (11) aryl-C₁₋₁₀alkyl, and
- (12) heteroaryl-C₁₋₁₀alkyl, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R_g, or two -OR^c groups together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R_g,

each R^c and R^d may be unsubstituted or substituted with one to three substituents selected from R^h;

R^e and R^f are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀ alkenyl,
- (4) C₂₋₁₀alkynyl,
- (5) cycloalkyl,
- (6) cycloalkyl-C₁₋₁₀ alkyl,
- (7) cycloheteroalkyl,
- (8) cycloheteroalkyl-C₁₋₁₀ alkyl,
- (9) aryl,
- (10) heteroaryl,
- (11) arylC₁₋₁₀ alkyl, and
- (12) heteroarylC₁₋₁₀ alkyl, or

R^e and R^f together with the carbon to which they are attached form a ring of 5 to 7 members containing 0-2 heteroatoms independently selected from oxygen, sulfur and nitrogen;

each R_g is independently selected from

- (1) C₁₋₁₀alkyl,
- (2) C₃₋₈cycloalkyl,
- (3) cycloheteroalkyl,
- (4) aryl,
- (5) arylC₁₋₄alkyl,
- (6) heteroaryl,
- (7) heteroarylC₁₋₄alkyl,
- (8) -S(O)_mR^e,
- (9) -C(O)R^e,

- (10) $-\text{CO}_2\text{R}^e$,
- (11) $-\text{CO}_2(\text{CR}^e\text{R}^f)_n\text{CONR}^e\text{R}^f$, and
- (12) $-\text{C}(\text{O})\text{NR}^e\text{R}^f$;

each R^h is independently selected from:

- (1) $\text{C}_{1-10}\text{alkyl}$,
- (2) $\text{C}_{3-8}\text{cycloalkyl}$,
- (3) cycloheteroalkyl ,
- (4) aryl ,
- (5) $\text{arylC}_{1-4}\text{alkyl}$,
- (6) heteroaryl ,
- (7) $\text{heteroarylC}_{1-4}\text{alkyl}$,
- (8) $-\text{OR}^e$,
- (9) $-\text{NR}^e\text{S}(\text{O})_m\text{R}^f$,
- (10) $-\text{S}(\text{O})_m\text{R}^e$,
- (11) $-\text{SR}^e$,
- (12) $-\text{S}(\text{O})_2\text{OR}^e$,
- (13) $-\text{S}(\text{O})_m\text{NR}^e\text{R}^f$,
- (14) $-\text{NR}^e\text{R}^f$,
- (15) $-\text{O}(\text{CR}^e\text{R}^f)_n\text{NR}^e\text{R}^f$,
- (16) $-\text{C}(\text{O})\text{R}^e$,
- (17) $-\text{CO}_2\text{R}^e$,
- (18) $-\text{CO}_2(\text{CR}^e\text{R}^f)_n\text{CONR}^e\text{R}^f$,
- (19) $-\text{OC}(\text{O})\text{R}^e$,
- (20) $-\text{CN}$,
- (21) $-\text{C}(\text{O})\text{NR}^e\text{R}^f$,
- (22) $-\text{NR}^e\text{C}(\text{O})\text{R}^f$,
- (23) $-\text{OC}(\text{O})\text{NR}^e\text{R}^f$,
- (24) $-\text{NR}^e\text{C}(\text{O})\text{OR}^f$,
- (25) $-\text{NR}^e\text{C}(\text{O})\text{NR}^e\text{R}^f$,
- (26) CF_3 , and
- (27) $-\text{OCF}_3$,

m is selected from 1 and 2; and

n is selected from 1, 2, and 3;

provided that when R^1 is phenyl, naphthyl, or heteroaryl, R^2 is phenyl and R^3 is hydrogen, Ar^1 is not unsubstituted phenyl and is not mono, di or tri- substituted phenyl with an R^b substituent selected

from the group consisting of halogen, hydroxy, -C₁₋₆ alkyl, phenyl, -CN, -NO₂, -CO₂H, -C(O)C₁₋₆alkyl, -CO₂C₁₋₆ alkyl, -C(O)NH₂, -C(O)NH-heterocycloalkyl, -NH₂, -NH-heterocycloalkyl, furanyl, dihydrofuranyl, pyrrolidyl, dihydropyrrolidyl, and 1,3-dioxolan; and

provided that when R¹ is aryl, monosubstituted with halogen, -OCH₃ or -CH₃ and optionally di-substituted with halogen, R² is aryl, optionally mono- or di- substituted with halogen, and R³ is hydrogen, Ar¹ is not unsubstituted 4-pyridinyl; and

provided that when R¹ and R² are unsubstituted aryl or unsubstituted heteroaryl, and R³ is hydrogen or C₁₋₄ alkyl, Ar¹ is substituted with at least one R^b substituent; and

provided that when R¹ is selected from the group consisting of unsubstituted phenyl, *para*-chlorophenyl or *para*-methoxy phenyl, R² is unsubstituted phenyl, and R³ is -CH₃, Ar¹ is not unsubstituted phenyl, *ortho*-CO₂H monosubstituted phenyl, or 3,4-dimethoxy phenyl.

Claim 10 (Original): The compound according to Claim 9 wherein:
R¹ and R² are independently selected from:

- (1) phenyl,
- (2) naphthyl, and
- (3) pyridyl,

each optionally substituted with one to four substituents independently selected from R^b;
or a pharmaceutically acceptable salt thereof.

Claim 11 (Original): The compound according to Claim 10 wherein:
Ar¹ is selected from:

- (1) phenyl,
- (2) naphthyl,
- (3) thienyl,
- (4) furanyl,
- (5) pyrrolyl,
- (6) oxazolyl,
- (7) isoxazolyl,
- (8) 1,2,5-oxadiazolyl,
- (9) 1,2,5-thiadiazolyl,
- (10) thiazolyl,
- (11) pyrazolyl,

- (12) triazolyl,
- (13) tetrazolyl,
- (14) benzothienyl,
- (15) benzofuranyl,
- (16) benzoxazolyl,
- (17) benzimidazolyl,
- (18) benzothiazolyl,
- (19) indanyl,
- (20) indenyl,
- (21) indolyl,
- (22) imidazo[1,2-a]pyridinyl,
- (23) β -carbolinyl,
- (24) 5,6,7,8-tetrahydro- β -carbolinyl,
- (25) tetrahydronaphthyl,
- (26) 4,5,6,7-tetrahydroindazolyl,
- (27) 2,3-dihydrobenzofuranyl,
- (28) dihydrobenzopyranyl,
- (29) 1,4-benzodioxanyl,
- (30) pyridinyl,
- (31) pyrimidinyl,
- (32) pyrazinyl,
- (33) quinolinyl,
- (34) isoquinolinyl,
- (35) quinazolonyl,
- (36) quinazolinyl,
- (37) 1,8-naphthyridinyl,
- (38) 1,2,3,4-tetrahydro-1,8-naphthyridinyl,
- (39) pyrido[3,2-b]pyridinyl,
- (40) pyrazolo[2,3-a]pyrimidinyl,
- (41) pyrido[1,2-a]pyrimidinyl,
- (42) pyrido[1,2-a]pyrimidonyl,
- (43) benzopyrimidinyl,
- (44) imidazolyl, and
- (45) imidazolonyl,

each optionally substituted with one, two, or three groups independently selected from R^b;
or a pharmaceutically acceptable salt thereof.

Claim 12 (Original): The compound of claim 11 wherein:

R³ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl,

wherein alkyl is optionally substituted with one to four substituents independently selected from R^a;

Ar¹ is selected from:

- (1) phenyl,
- (2) naphthyl,
- (3) thienyl,
- (4) isoxazolyl,
- (5) 1,2,5-oxadiazolyl,
- (6) thiazolyl,
- (7) pyrazolyl,
- (8) triazolyl,
- (9) tetrazolyl,
- (10) benzofuranyl,
- (11) benzoxazolyl,
- (12) benzimidazolyl,
- (13) benzothiazolyl,
- (14) imidazo[1,2-a]pyridinyl,
- (15) 5,6,7,8-tetrahydro- β -carbolinyl,
- (16) 4,5,6,7-tetrahydroindazolyl,
- (17) pyridinyl,
- (18) pyrimidinyl,
- (19) pyrazinyl,
- (20) quinolinyl,
- (21) isoquinolinyl,
- (22) quinazolonyl,
- (23) quinazolinyl,
- (24) 1,8-naphthyridinyl,
- (25) 1,2,3,4-tetrahydro-1,8-naphthyridinyl,
- (26) pyrido[3,2-b]pyridinyl,
- (27) pyrazolo[2,3-a]pyrimidinyl,
- (28) pyrido[1,2-a]pyrimidinyl,
- (29) pyrido[1,2-a]pyrimidonyl,
- (30) benzopyrimidinyl,
- (31) imidazolyl, and

(32) imidazolonyl,
each optionally substituted with one, two, or three groups independently selected from R^b;
each R^a is independently selected from:

- (1) -OR^c,
- (2) halogen,
- (3) -S(O)_mR^c,
- (4) -SR^c,
- (5) -S(O)₂OR^c,
- (6) -S(O)_mNR^cR^d,
- (7) -NR^cR^d,
- (8) -C(O)R^c,
- (9) -CO₂R^c,
- (10) -CN,
- (11) -C(O)NR^cR^d,
- (12) CF₃,
- (13) -OCF₃,
- (14) C₃₋₈cycloalkyl,
- (15) cycloheteroalkyl, and
- (16) oxo;

each R^b is independently selected from:

- (1) R^a,
- (2) C₁₋₁₀alkyl,
- (3) cycloheteroalkyl,
- (4) aryl,
- (5) arylC₁₋₄alkyl,
- (6) heteroaryl, and
- (7) heteroarylC₁₋₄alkyl,

wherein alkyl, cycloalkyl, cycloheteroalkyl, heteroaryl are optionally substituted with oxo,
and wherein aryl and heteroaryl are optionally substituted with -OR^c, NR^cR^d, or -C(O)R^c;

R^c and R^d are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) cycloalkyl,
- (4) cycloheteroalkyl,
- (5) aryl,
- (6) heteroaryl, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R^g, or two -OR^c groups together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R^g,

each R^c and R^d may be unsubstituted or substituted with one to three substituents selected from R^h; or a pharmaceutically acceptable salt thereof.

Claim 13 (Original): The compound according to Claim 12, wherein:

R¹ and R² are independently selected from:

- (1) phenyl, and
- (2) pyridyl,

each optionally substituted with one to four substituents independently selected from R^b;

R³ is C₁₋₄alkyl, wherein alkyl is optionally substituted with one to four substituents independently selected from R^a;

each R^a is independently selected from:

- (1) -OR^c,
- (2) halogen,
- (3) -S(O)_mR^c,
- (4) -NR^cR^d,
- (5) -C(O)R^c,
- (6) -CO₂R^c, and
- (7) oxo;

or a pharmaceutically acceptable salt thereof.

Claim 14 (Original): The compound according to Claim 13, wherein:

R¹ and R² are independently selected from:

- (1) phenyl,
- (2) 4-fluorophenyl,
- (3) 2-chlorophenyl,
- (4) 3-chlorophenyl,
- (5) 4-chlorophenyl,
- (6) 4-cyanophenyl,
- (7) 4-methylphenyl,
- (8) 4-isopropylphenyl,
- (9) 4-biphenyl,
- (10) 4-bromophenyl,
- (11) 4-iodophenyl,

(12) 2,4-dichlorophenyl, and
(13) 2-chloro-4-fluorophenyl;
or a pharmaceutically acceptable salt thereof.

Claim 15 (Original): The compound according to Claim 14 wherein:
R¹ and R² are independently selected from phenyl and 4-chlorophenyl;
R³ is methyl, wherein methyl is optionally substituted with one to three substituents independently
selected from R^a;
or a pharmaceutically acceptable salt thereof.

Claim 16 (Original): A composition comprising a compound according to Claim 1 and a
pharmaceutically acceptable carrier.

Claim 17 (Original): A composition comprising a compound according to Claim 8 and a
pharmaceutically acceptable carrier.

Claim 18 (Original): A method of preventing obesity in a person at risk for obesity
comprising administration to said person of about 0.001 to about 100 mg/kg of a compound according
to Claim 1.

Claim 19 (Original): A method of preventing obesity in a person at risk for obesity
comprising administration to said person of about 0.001 to about 100 mg/kg of a compound according
to Claim 8.

Claim 20 (Original): A method of treating a disease mediated by the Cannabinoid-1
receptor comprising administration of a therapeutically effective amount of a compound of Claim 1 to
a patient in need of such treatment.

Claim 21 (Original): The method according to Claim 20 wherein the disease mediated by
the Cannabinoid-1 receptor is selected from: psychosis, memory deficit, cognitive disorders, migraine,
neuropathy, neuro-inflammatory disorders, cerebral vascular accidents, head trauma, anxiety
disorders, stress, epilepsy, Parkinson's disease, schizophrenia, substance abuse disorders, constipation,
chronic intestinal pseudo-obstruction, cirrhosis of the liver, asthma, obesity, and other eating disorders
associated with excessive food intake.

Claim 22 (Original): The method according to Claim 21 wherein the disease mediated by
the Cannabinoid-1 receptor is an eating disorder associated with excessive food intake.

Claim 23 (Original): The method according to Claim 22 wherein the eating disorder associated with excessive food intake is selected from obesity, bulimia nervosa, and compulsive eating disorders.

Claim 24 (Original): The method according to Claim 23 wherein the eating disorder associated with excessive food intake is obesity.

Claims 25-30 (Cancelled).